Test1cheat.md 2023-09-30

 $p(A|B) = \frac{p(A \cap B_i, p(A) = \sum_{i=1}^n B_i, p(A) = \sum_{i=1}^n p(A \cap B_i)}{p(B)}$ $B_i) = \sum_{i=1}^n p(A|B_i) p(B_i)$

 $A,B-indep <=> p(A \subset B) = p(A)p(B)$ $p(A|B) = \frac{p(B|A)p(A)}{p(B)}$

 $A,B-incop<=>p(A\setminus B)=0$ $M(x)=\sum_{i=1}^n x_i p_i$ $F_xi(x)=p(xi< x)$

 $p(B_i|A) = \frac{p(A|B_i)p(B_i)}{\sum_{i=1}^n p(A|B_i)p(B_i)}$ \$\footnote{Var(x) = M(x^2) - M(x)^2\$}

Cov(X,Y) = E ig[(X-EX)(Y-EY) ig] = E[XY] - (EX)(EY)